

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A luminescent screen comprising particles of luminescent material embedded in an inorganic material, wherein the inorganic material comprises mono aluminum phosphate and silicon oxide that fill pores between the particles of luminescent material.

Claims 2-3 (Canceled)

4. (Previously presented) A discharge lamp equipped with the luminescent screen as claimed in claim 1.

5. (Previously presented) The discharge lamp as claimed in claim 4, wherein the discharge lamp comprises a lamp vessel that is

transparent for visible light and the luminescent screen is deposited on part of an inner wall or part of an outer wall of the lamp vessel.

6. (Previously presented) The discharge lamp as claimed in claim 5, wherein the luminescent screen is covered by a top layer.

7. (Previously presented) The discharge lamp as claimed in claim 6, wherein the top layer comprises a compound chosen from the group formed by yttrium oxide and yttrium-strontium-borate.

8. (Previously presented) The discharge lamp as claimed in claim 4, wherein the discharge lamp is a fluorescent lamp.

9. (Currently Amended) The luminescent screen of claim 1, wherein a diameter of the particles of the luminescent material is greater than a diameter of the inorganic particles of the aluminum phosphate material by at least an order of magnitude of ten thousand times.

Claim 10 (Canceled)

11. (Previously presented) A luminescent screen comprising:
a first layer comprising a luminescent material having
luminescent particles; and
a second layer comprising an inorganic material having
inorganic particles including mono aluminum phosphate;
wherein the inorganic particles are smaller than the
luminescent particles so that the inorganic particles fill pores
between the luminescent particles; the second layer directly
covering the first layer.

12. (Currently Amended) The luminescent screen of claim 11,
wherein a diameter of the luminescent particles is greater than a
diameter of the inorganic particles by at least an order of
magnitude of ten thousand times.

13. (Previously presented) The luminescent screen of claim 11,
wherein the inorganic material further includes silicon oxide.

14. (Previously presented) A discharge lamp comprising:

a discharge vessel; and

a luminescent screen formed on a wall of the discharge vessel;

the luminescent screen comprising:

a first layer comprising luminescent material having

luminescent particles formed on the wall of the discharge vessel;

and

a second layer comprising inorganic material having inorganic particles including mono aluminum phosphate formed on the first layer;

wherein the second layer directly covers the first layer and fill pores between the luminescent particles.

15. (Currently Amended) The discharge lamp of claim 14,

wherein a diameter of the luminescent particles is greater than a diameter of the inorganic particles by at least an order of magnitude of ten thousand times.

16. (Previously presented) The discharge lamp of claim 14,

wherein the inorganic material further includes silicon oxide.

17. (Previously presented) The discharge lamp of claim 14,
further comprising a top layer formed over the luminescent screen.

18. (Previously presented) The discharge lamp of claim 14,
wherein the top layer comprises a compound chosen from the group
formed by yttrium oxide and yttrium-strontium-borate.

19. (Currently Amended) A method of forming a luminescent
screen on a lamp wall comprising the acts of:

mixing luminescent particles with inorganic particles
including mono aluminum phosphate and silicon oxide particles to
form a slurry;

applying the slurry to the lamp wall; and
drying the lamp wall.

Claim 20 (Canceled)

21. (New) The luminescent screen of claim 1, wherein a
diameter of the particles of the luminescent material is greater

than a diameter of the inorganic material by at least an order of magnitude of hundred times.

22. (New) The luminescent screen of claim 11, wherein a diameter of the luminescent particles is greater than a diameter of the inorganic particles by at least an order of magnitude of hundred times.

23. (New) The discharge lamp of claim 14, wherein a diameter of the luminescent particles is greater than a diameter of the inorganic particles by at least an order of magnitude of hundred times.

24. (New) The method of claim 19, wherein a diameter of the luminescent particles is greater than a diameter of the inorganic particles by at least an order of magnitude of hundred times.